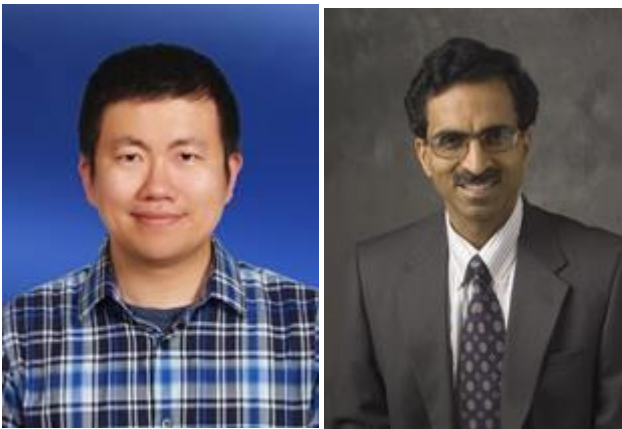


## Results of the STAHY Best Paper Award 2013

The STAHY Best Paper Award 2013 is assigned to:



Dr. Shih-Chieh Kao and Dr. Rao Govindaraju

for the paper:

**Kao, S.-C., Govindaraju, R.S. A copula-based joint deficit index for droughts (2010) *Journal of Hydrology*, 380 (1-2), pp. 121-134**

The STAHY Best Paper is the result of evaluation of the first 20 papers, selected among the 238 papers (published in 2009-2010-2011) present in ICSH website and ordered by citations (SCOPUS database, excluding self citations).

The list of 20 eligible papers were:

1. Kao, S.-C., Govindaraju, R.S. A copula-based joint deficit index for droughts (2010) *Journal of Hydrology*, 380 (1-2), pp. 121-134. Cited 33 times.
2. Petrow, T., Merz, B. Trends in flood magnitude, frequency and seasonality in Germany in the period 1951-2002. (2009) *Journal of Hydrology*, 371 (1-4), pp. 129-141. Cited 28 times
3. Villarini, G., Smith, J.A., Serinaldi, F., Bales, J., Bates, P.D., Krajewski, W.F. Flood frequency analysis for nonstationary annual peak records in an urban drainage basin (2009) *Advances in Water Resources*, 32 (8), pp. 1255-1266. Cited 26 times.
4. Khaliq, M.N., Ouarda, T.B.M.J., Gachon, P., Sushama, L., St-Hilaire, A. Identification of hydrological trends in the presence of serial and cross correlations: A review of selected methods and their application to annual flow regimes of Canadian rivers (2009) *Journal of Hydrology*, 368 (1-4), pp. 117-130. Cited 24 times
5. \*Serinaldi, F., Bonaccorso, B., Cancelliere, A., Grimaldi, S. Probabilistic characterization of drought properties through copulas (2009) *Physics and Chemistry of the Earth*, 34 (10-12), pp. 596-605. Cited 24 times.
6. Mailhot, A., Duchesne, S. Design criteria of urban drainage infrastructures under climate change (2010) *Journal of Water Resources Planning and Management*, 136 (2), art. no. 009002QWR, pp. 201-208. Cited 23 times.
7. Villarini, G., Serinaldi, F., Smith, J.A., Krajewski, W.F. On the stationarity of annual flood peaks in the continental United States during the 20th century (2009) *Water Resources Research*, 45 (8), art. no. W08417, . Cited 19 times.
8. Xu, K., Milliman, J.D., Xu, H. Temporal trend of precipitation and runoff in major Chinese Rivers since 1951 (2010) *Global and Planetary Change*, 73 (3-4), pp. 219-232. Cited 18 times.

9. Ruddell, B.L., Kumar, P. Ecohydrologic process networks: 1. Identification (2009) *Water Resources Research*, 45 (3), art. no. W03419, . Cited 16 times.
10. Mishra, A.K., Özger, M., Singh, V.P. An entropy-based investigation into the variability of precipitation (2009) *Journal of Hydrology*, 370 (1-4), pp. 139-154. Cited 15 times.
11. López-Moreno, J.I., Vicente-Serrano, S.M., Angulo-Martínez, M., Beguería, S., Kenawy, A. Trends in daily precipitation on the northeastern Iberian Peninsula, 1955-2006 (2010) *International Journal of Climatology*, 30 (7), pp. 1026-1041. Cited 15 times.
12. Laio, F., Di Baldassarre, G., Montanari, A. Model selection techniques for the frequency analysis of hydrological extremes (2009) *Water Resources Research*, 45 (7), art. no. W07416, . Cited 15 times.
13. Micevski, T., Kuczera, G. Combining site and regional flood information using a Bayesian Monte Carlo approach (2009) *Water Resources Research*, 45 (4), art. no. W04405, . Cited 15 times.
14. Wong, G., Lambert, M.F., Leonard, M., Metcalfe, A.V. Drought analysis using trivariate copulas conditional on climatic states (2010) *Journal of Hydrologic Engineering*, 15 (2), pp. 129-141. Cited 15 times.
15. Sang, H., Gelfand, A.E. Continuous spatial process models for spatial extreme values (2010) *Journal of Agricultural, Biological, and Environmental Statistics*, 15 (1), pp. 49-65. Cited 15 times.
16. Song, S., Singh, V.P. Meta-elliptical copulas for drought frequency analysis of periodic hydrologic data (2010) *Stochastic Environmental Research and Risk Assessment*, 24 (3), pp. 425-444. Cited 14 times.
17. AghaKouchak, A., Bárdossy, A., Habib, E. Conditional simulation of remotely sensed rainfall data using a non-Gaussian v-transformed copula (2010) *Advances in Water Resources*, 33 (6), pp. 624-634. Cited 13 times.
18. Khaliq, M.N., Ouarda, T.B.M.J., Gachon, P. Identification of temporal trends in annual and seasonal low flows occurring in Canadian rivers: The effect of short- and long-term persistence (2009) *Journal of Hydrology*, 369 (1-2), pp. 183-197. Cited 13 times.
19. Serinaldi, F. Copula-based mixed models for bivariate rainfall data: An empirical study in regression perspective (2009) *Stochastic Environmental Research and Risk Assessment*, 23 (5), pp. 677-693. Cited 13 times.
20. Cong, Z., Zhao, J., Yang, D., Ni, G. Understanding the hydrological trends of river basins in China (2010) *Journal of Hydrology*, 388 (3-4), pp. 350-356. Cited 13 times.

\*this paper was excluded from the evaluation procedure since one of the authors is part of the Award Committee.

The STAHY Best Paper Award 2013 Committee: Salvatore Grimaldi, Uwe Haberlandt, Emna Gargouri, Simon Micheal Papalexiou, Ebru Eris